

Abstract of the Disclosure

[0098] An echo canceler includes an recursive least squares lattice to whiten a far-end signal $s_1(t)$ and provide whitened time delays. The echo canceler further decorrelates a microphone signal based on the whitened time delays to reduce echoes of the far-end signal $s_1(t)$ that are contained in the microphone signal $x_2(t)$. The echo canceler does not use a double-talk detector and avoids all problems inherent with their use. Thus, speaker phones, and other communication devices, can continuously operate in full-duplex mode of operation thereby providing natural conversational hands-free communication.